

FIG. 1

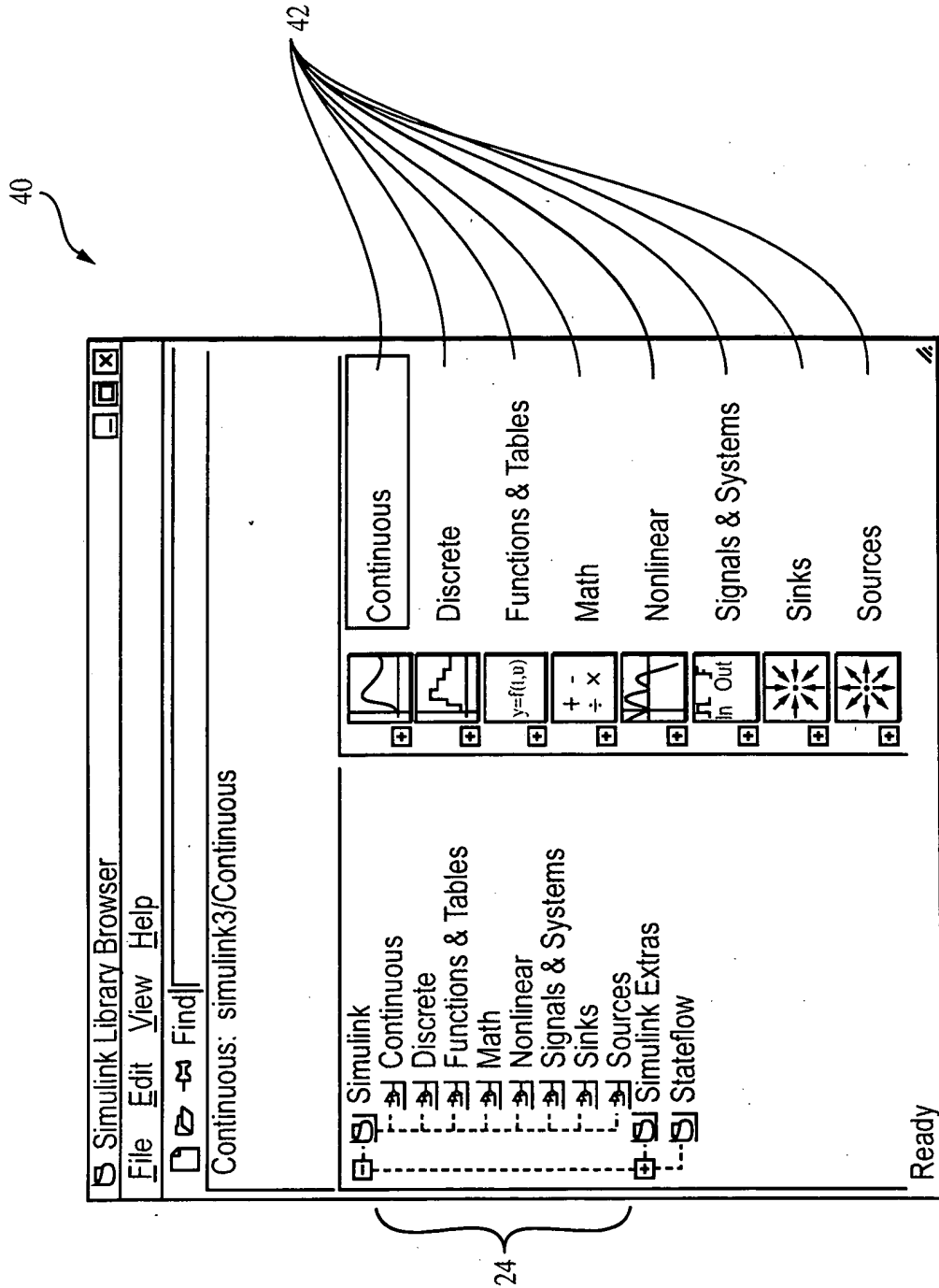
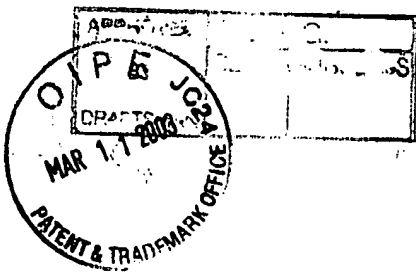
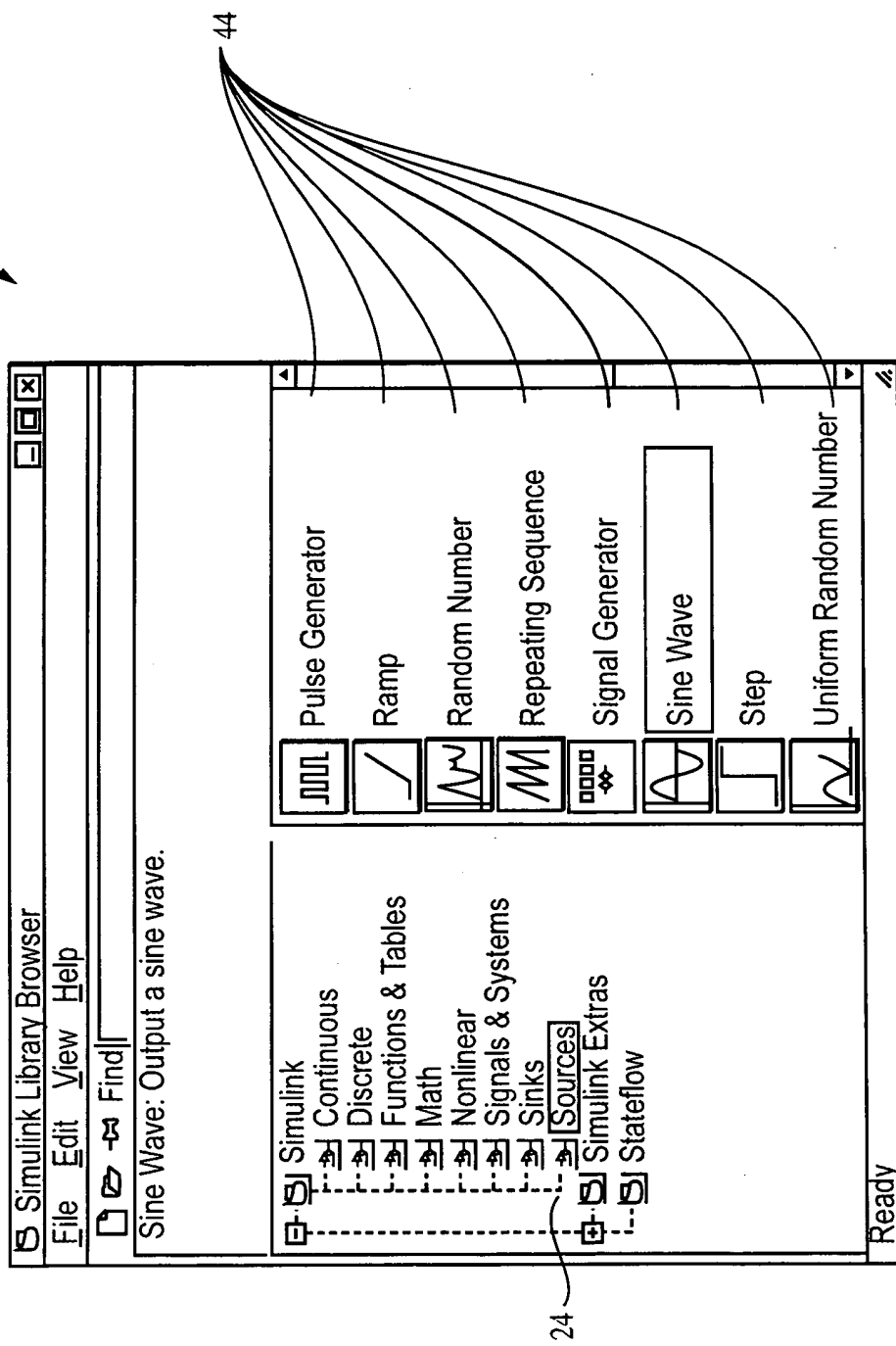


FIG. 2A



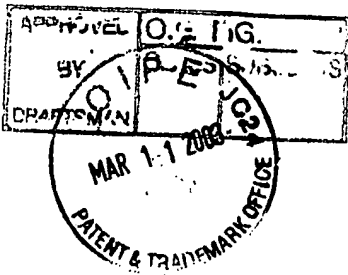
40



44

24

FIG. 2B



50

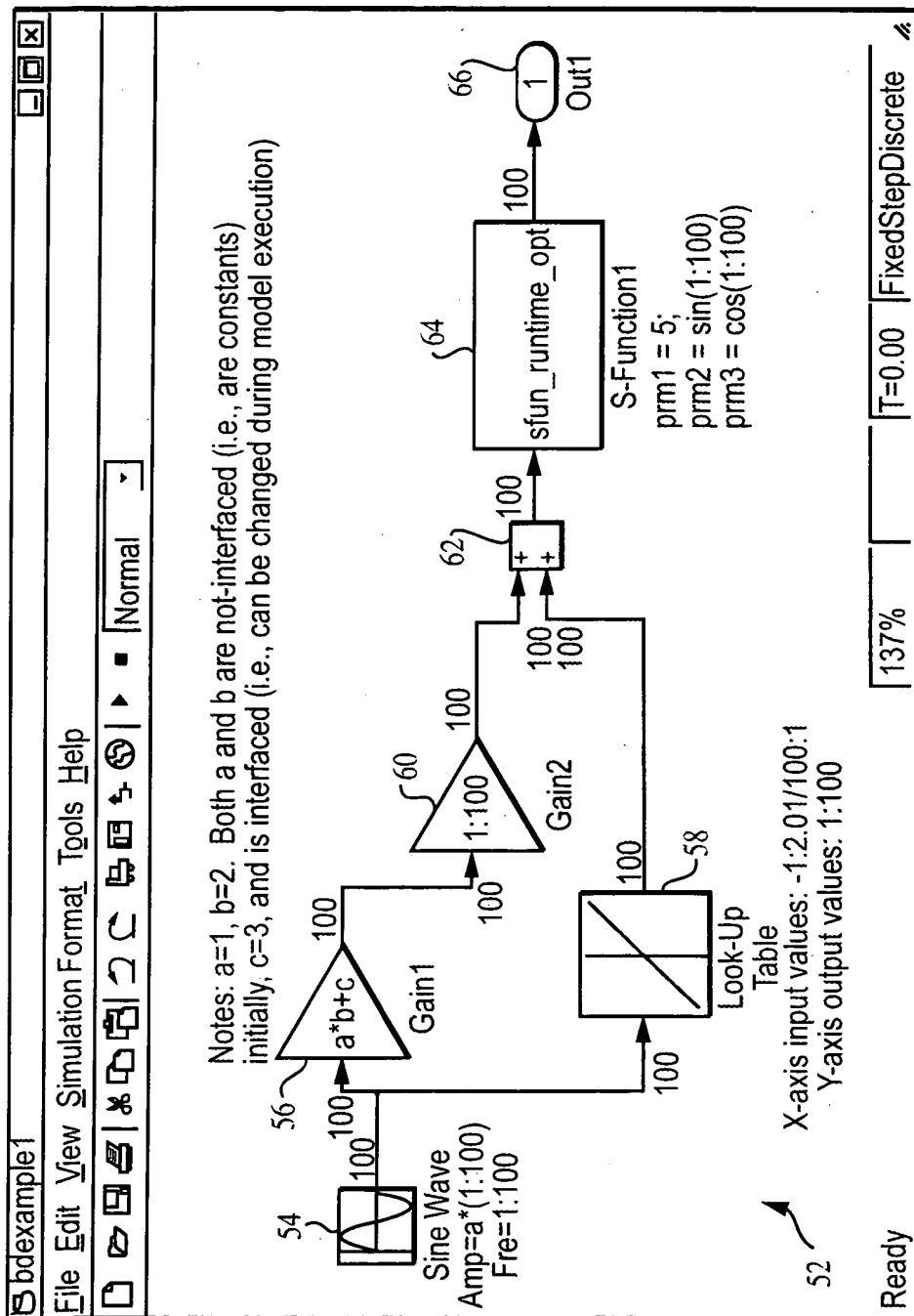
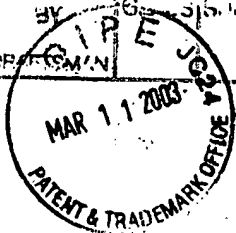


FIG. 3

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Applicant(s): John Edward Ciolfi

HANDLING PARAMETERS IN BLOCK DIAGRAM MODELING

70

Block Parameters: Gain ✕

Gain
Element-wise gain ($y = K * u$) or matrix gain ($y = K * u$ or $y = u * K$)

Parameters: Gain

72

Multiplication: 74

☒ Saturate on integer overflow

FIG. 4

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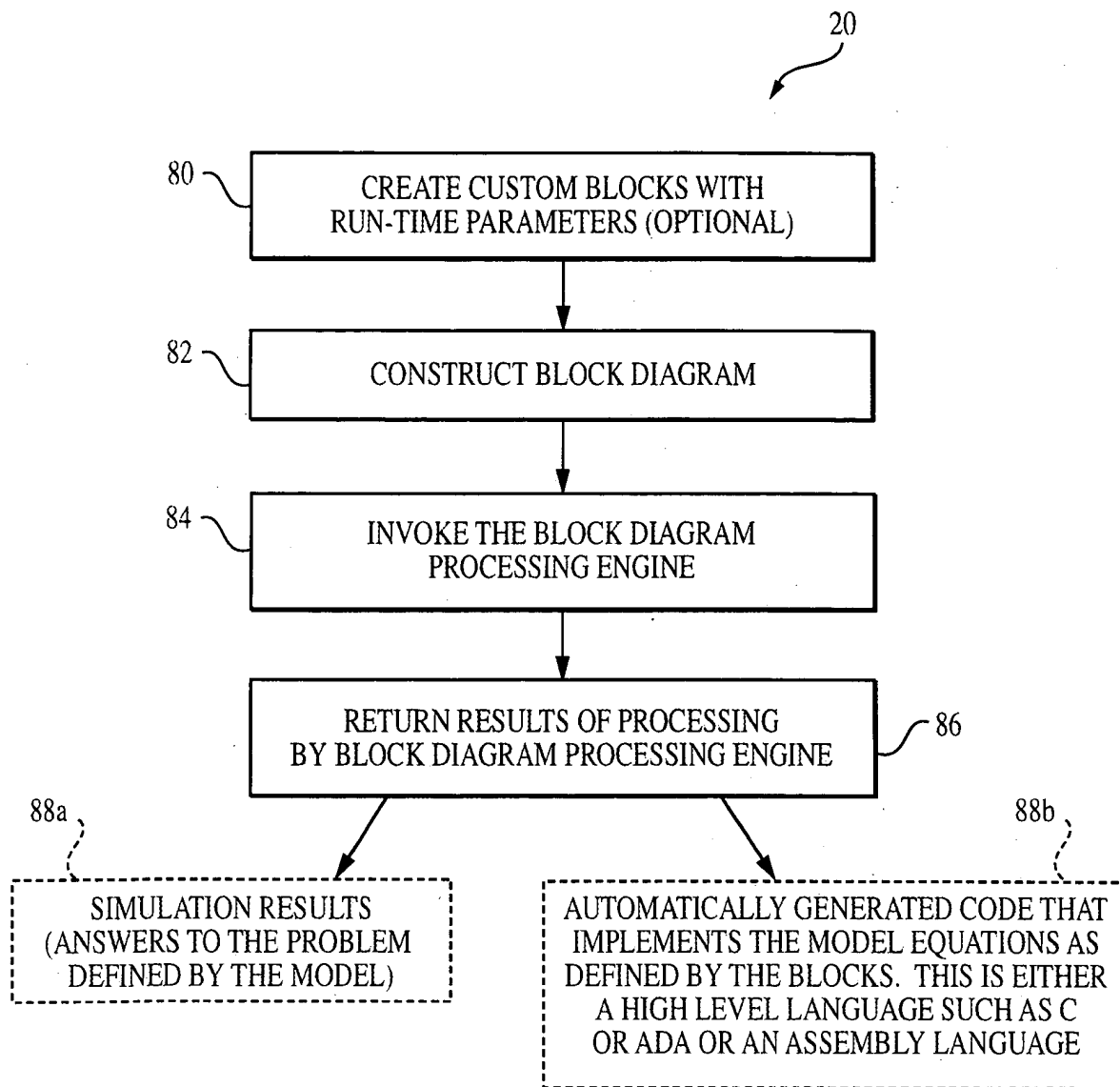
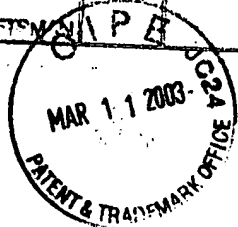


FIG. 5

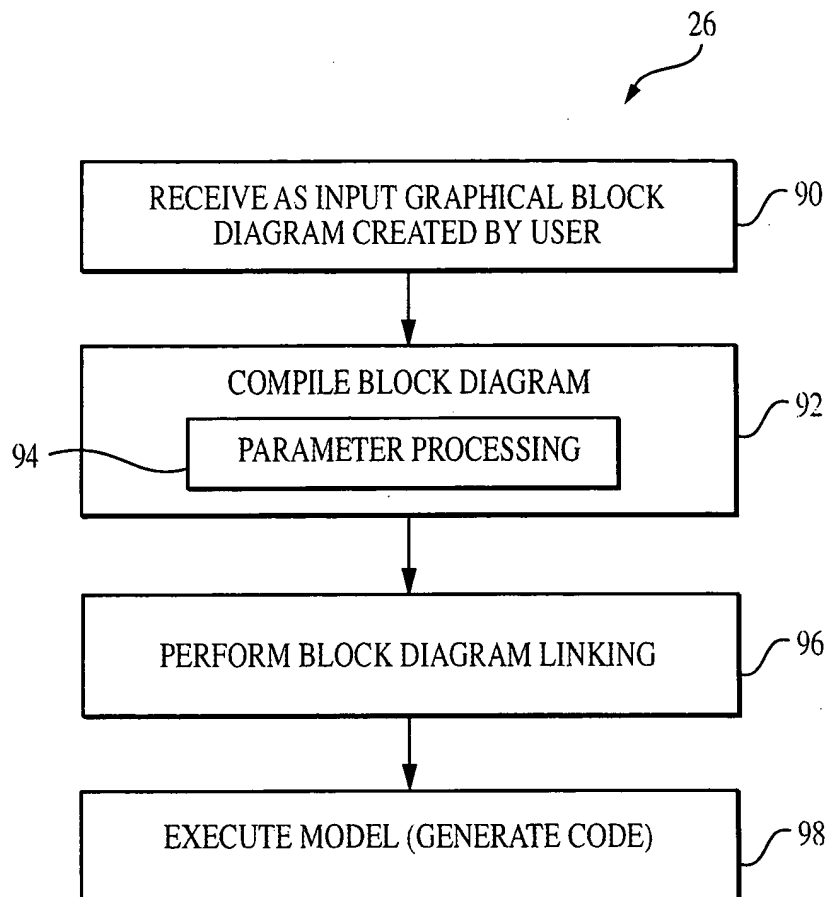
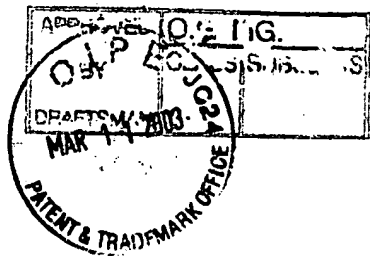


FIG. 6

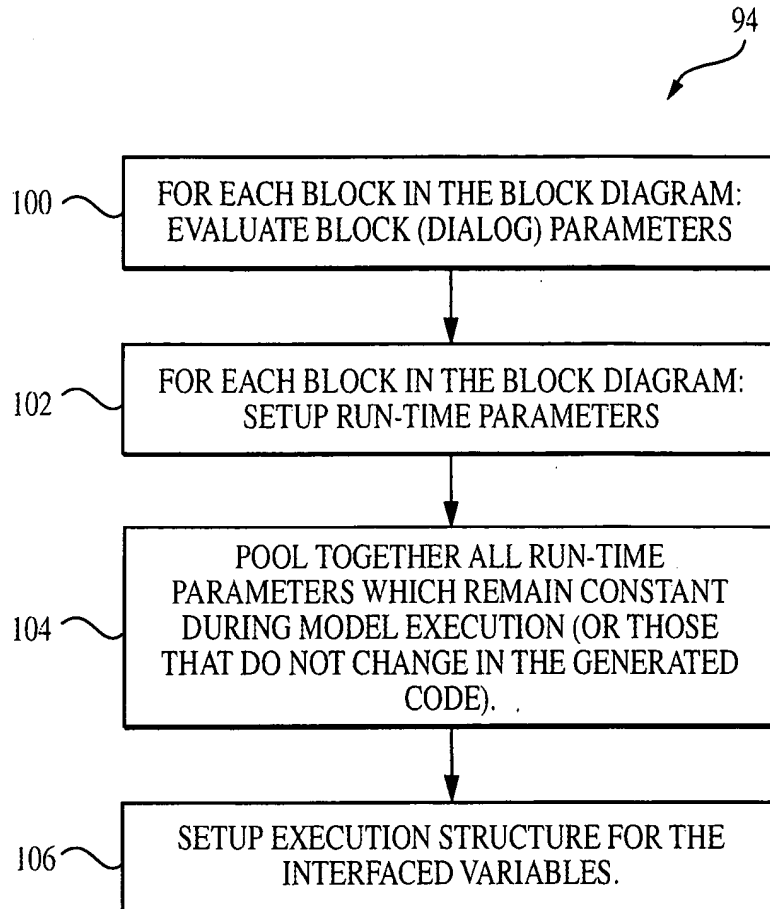
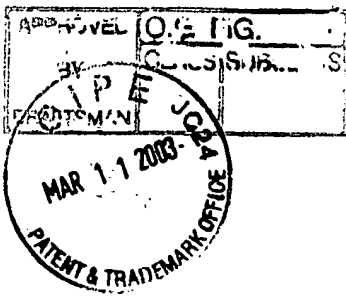
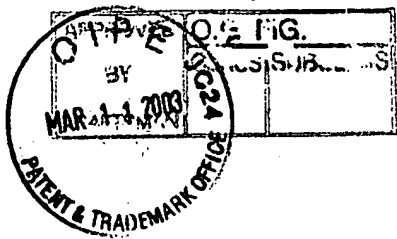


FIG. 7



110

Block {

 EvalDialogParams(void) 112

 SetupRuntimeParams(void) 114

 InternalData: 116

 AST[nParams]; 118

 NumericDialogParamValues[nParams]; 120

 RuntimeParams[nRunTimeParams]; 122

 GetAstForDialogParam(int paramIndex)

 SetAstForDialogParam(int paramIndex, ast)

 GetNumericParamValues(int dialogParamIndex)

 SetNumericParamValues(int dialogParamIndex, value)

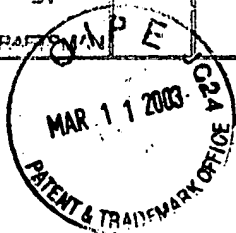
 GetNumRuntimeParams()

 GetRuntimeParam(int runtimeParamIdx) 124

 SetRuntimeParam(int runtimeParamIdx, value)

}

FIG. 8



100

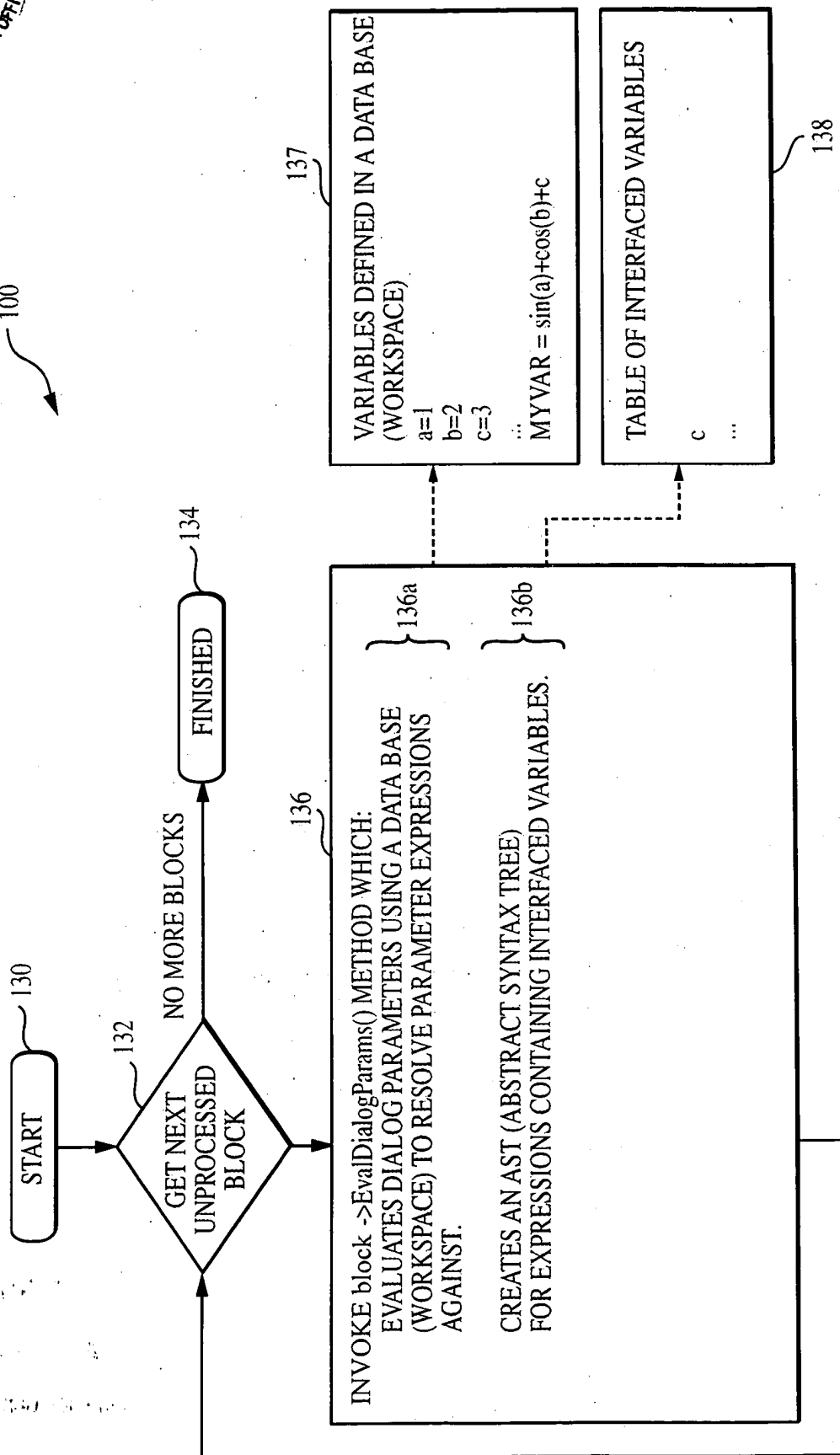


FIG. 9

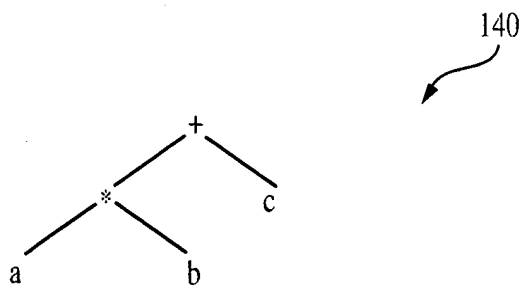
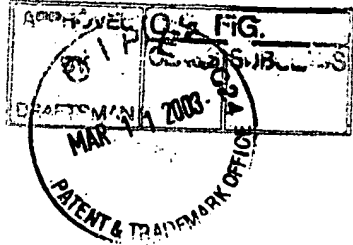


FIG. 10A

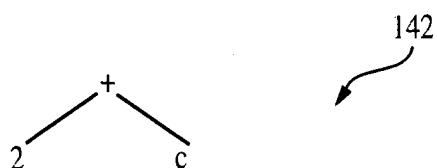


FIG. 10B

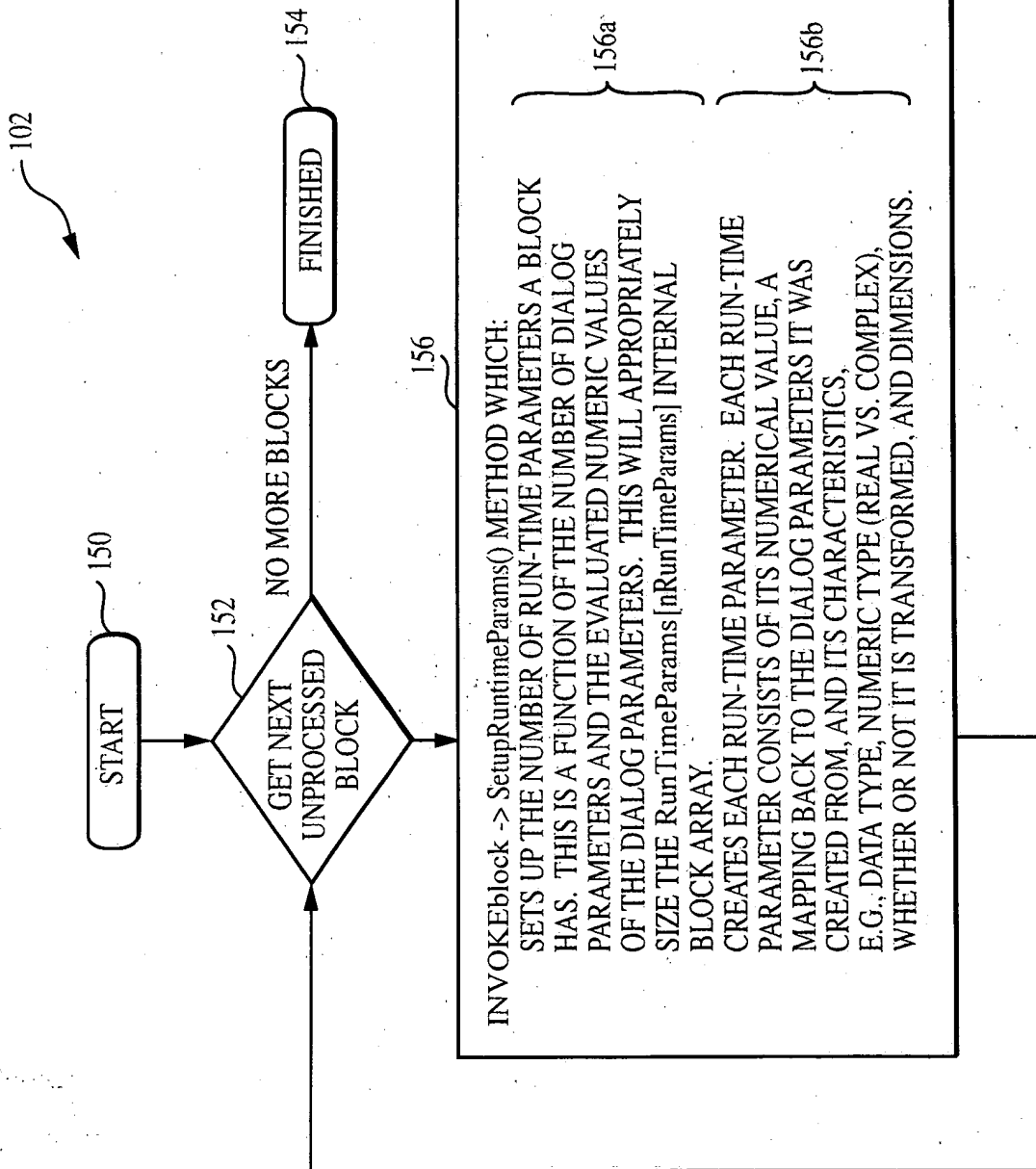
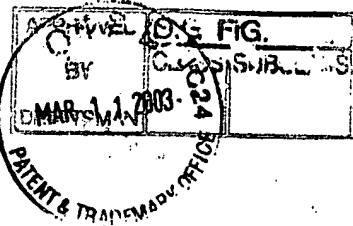


FIG. 11

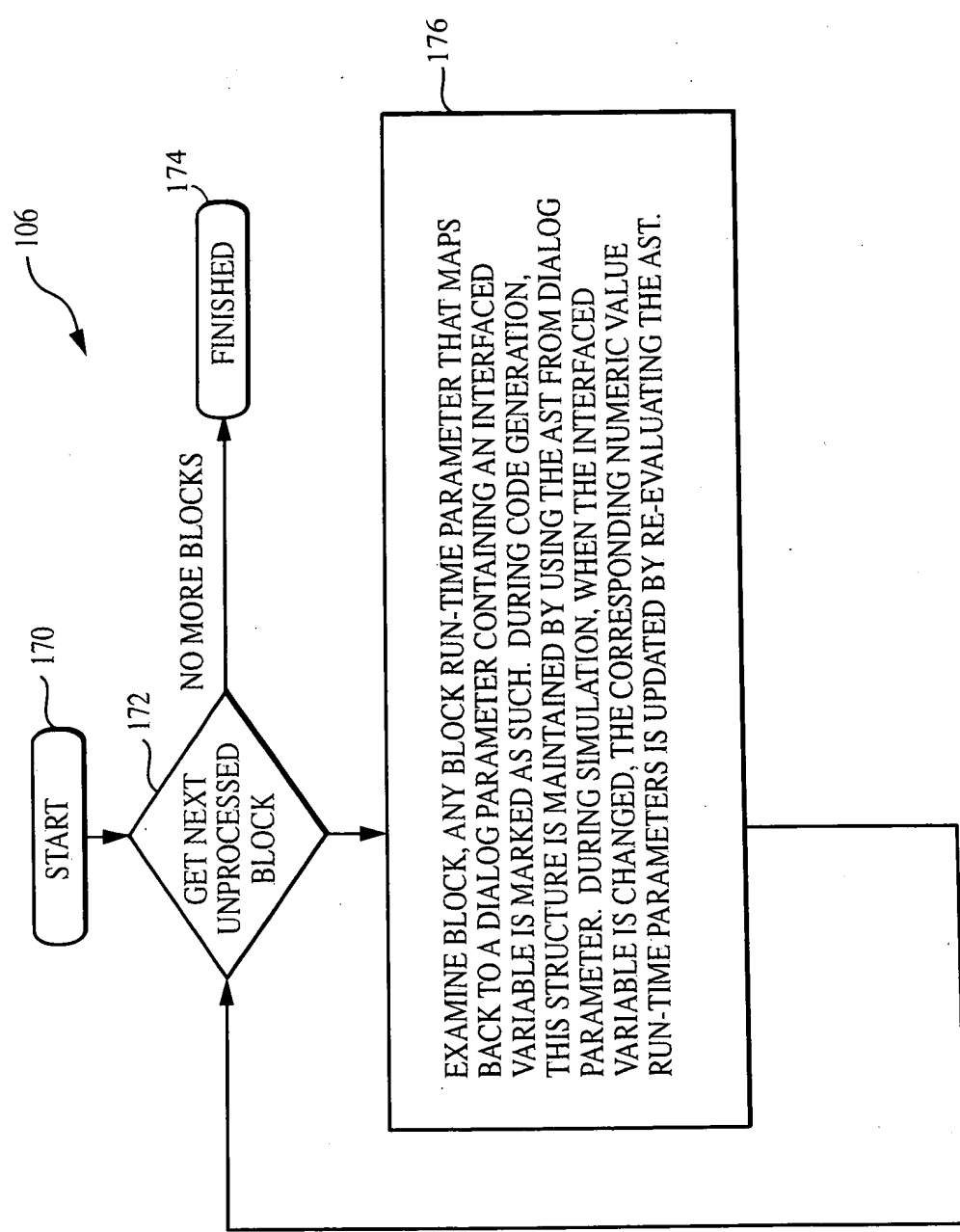


FIG. 13